PROJECT OVERVIEW

• Approached by City of Russell in April 2013
• Reviewed current lighting configuration
• Identified options for reducing energy use
• Contacted local Clean Energy Resource Team Coordinator in September 2013 looking for available grants and incentives
• Expanded scope to include cities of Arco and Lynd
• Submitted Grant Application through CERTs team in October 2013
• Grant approved to cover a portion of labor expense on project
• Budgeted for first phase of project in 2014
• Completed replacement of all street lights within the city of Russell in May 2014
• Expanded Project to include cities of Arco and Lynd
ORIGINAL LIGHTING CONFIGURATION

- 72 Mercury Vapor lights - 175 Watts Each
- 23 High Pressure Sodium lights - 100 Watts Each
- 7 400 Watt street lights

- 2012 Annual Street Lighting Expense - $9,713
- 2012 Annual kWh use for Street Lighting - 84,473 kWh

- 2013 Annual Street Lighting Expenses - $9,607
- 2013 Annual kWh use for Street Lighting - 79,092 kWh
PROPOSED LIGHTING CONFIGURATION

• Conducted photometric study to identify proper lighting configuration
• Obtained three bids for lighting solutions
• Decided on a 48 Watt, Type III 5700 K secure lite with a 6’ stranded pigtail
• Issued a Purchase Order for 104 lights in early February.
• 8 week lead time
• Began installation during the second week of May, 2014
• Completed change-out of 104 lights (76.5 labor hours) (3 men, 3 + days)
METER 1 - 1 YEAR OVERVIEW
METER 1 – 3 MONTH LOOK
PROJECTED SAVINGS

- Potential Annual kWh savings of 61,577 kWhs per year
- Potential $ Savings of $5,570 per year
- Savings of $16.50 per resident per year based on 2010 Census
CITY OF LYND

- 38 Mercury Vapor lights – 175 Watts Each
- 21 High Pressure Sodium lights – 100 Watts Each
- 1 400 Watt street lights

- 12 Month Street Lighting Expense Dec ’13-Nov ‘14 - $4,976.93
- 12 Month kWh use for Street Lighting – 50,785 kWh

- Projected Annual Savings- $3,410.42
- Projected Annual kWh Savings – 34,800 kWh
CITY OF ARCO

• 17 Mercury Vapor lights – 175 Watts Each
• 14 High Pressure Sodium lights – 100 Watts Each
• 6 400 Watt street lights

• 12 Month Street Lighting Expense Dec ’13-Nov ‘14 - $2,778.30
• 12 Month kWh use for Street Lighting – 28,350 kWh

• Projected Annual Savings- $2,049.96
• Projected Annual kWh Savings - 20,918 kWh